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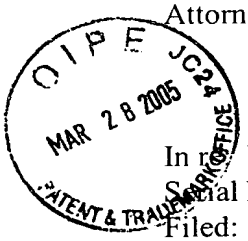

Attorney Docket No. 5405-293 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Nightingale et al. Confirmation No.: 9938
Serial No.: 10/680,073 Group Art Unit: 3737
Filed: October 6, 2003
For: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ULTRASOUND MEASUREMENTS USING RECEIVE MODE PARALLEL

Date: March 24, 2005

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97(b)

Sir:

Attached is a list of documents on Form PTO-1449, together with a copy of any listed foreign patent document and/or non-patent literature. A copy of any listed U.S. patent and/or U.S. patent application publication is not provided herewith in accordance with the amendment by the U.S. Patent and Trademark Office to 37 C.F.R. § 1.98(a)(2)(ii) effective October 21, 2004. This Information Disclosure Statement is submitted in accordance with 37 C.F.R. § 1.97(b), within three months of the filing date of the above-referenced application or before the mailing of a first Office Action on the merits, whichever event occurs last. Therefore, no fee is believed due. However, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0220. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.56 and Section 609 of the MPEP.

Respectfully submitted,

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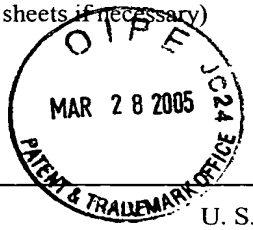
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 24, 2005.

Carey Gregory

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)



Attorney Docket Number	Serial No.
5405-293	10/680,073
Applicants: Nightingale et al	
Filing Date: October 6, 2003	Group 3737

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	4,913,157	4/30/90	Pratt et al.	128	661.03	
	2.	5,487,387	1/30/96	Trahey et al.	128	660.02	
	3.	5,921,928	7/13/99	Greenleaf et al.	600	437	
	4.	5,810,731	9/22/98	Sarvazyan et al.	600	438	
	5.	5,107,837	4/28/92	Ophir et al.	128	660.01	
	6.	5,524,636	06/11/96	Sarvazyan et al.	128	774	
	7.	5,099,848	03/31/92	Parker et al.	128	661.07	
	8.	6,371,912	4/16/02	Nightingale et al.	600	437	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes | No
	9.	98/55025	12/10/98	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	10.	Supplementary Partial European Search Report for EP Application 01 93 0447 dated February 2, 2005.
	11.	International Search Report; PCT/US01/11051; filed April 5, 2001
	12.	A. Saravazyan et al., Biophysical Bases of Elasticity Imaging, *Acoustic Imaging* **21**, 223-240 (1995).
	13.	K. Nightingale, *Ultrasonic Generation and Detection of Acoustic Streaming to Differentiate Between Fluid-Filled and Solid Lesions in the Breast* (Ph.D. Thesis, Duke University, September 1997)
	14.	K. Nightingale, R. Nightingale, T. Hall, and G. Trahey, The use of radiation force induced tissue displacements to image stiffness: a feasibility study, 23rd International Symposium on Ultrasonic Imaging and Tissue Characterization, May 27-29, 1998;

EXAMINER _____ DATE CONSIDERED

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)	Attorney Docket Number 5405-293	Serial No. 10/680,073
	Applicants: Nightingale et al	
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	15.	Krouskop et. al., Elastic Moduli of Breast and Prostate Tissues Under Compression, *Ultrasonic Imaging* **20**, 260-274 (1998)
	16.	M. Fatemi and J. Greenleaf, Ultrasound-stimulated vibro-acoustic spectrography, *Science*, **280**:82-85, (1998)
	17.	K.R. Nightingale, R.W. Nightingale, M.L. Palmeri, and G.E. Trahey, Finite element analysis of radiation force induced tissue motion with experimental validation, In *Proceedings of the 1999 IEEE Ultrasonics Symposium, page in press, 1999*
	18.	K Nightingale et al., Utilization of Acoustic Streaming to Classify Breast Lesions *IN VIVO, Proceedings of the 1997 IEEE Ultrasonics Symposium,* 1419-1422 (Toronto, CA, Oct 1997).
	19.	A. Sarvazyan, O. Rudenko, S. Swanson, J. Fowlkes, and S. Emelianov, Shear wave elasticity imaging: A new ultrasonic technology of medical diagnostics,*Ultrasound Med. Biol.* **24**:9 1419-1435 (1998)
	20.	T. Sugimoto, S. Ueha, and K. Itoh, Tissue hardness measurement using the radiation force of focused ultrasound, In *Proceedings of the 1990 Ultrasonics Symposium*, pages 1377-1380, 1990
	21.	W. Walker, Internal deformation of a uniform elastic solid by acoustic radiation force, *J. Acoust. Soc. Am.*, **105**:4 2508-2518 (1999).

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